

Parvaiz Ahmad

List of Publications by Year in descending order

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Version: 2024-02-01

308
papers

20,344
citations

9234

74
h-index

19136

118
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412
all docs

412
docs citations

412
times ranked

11903
citing authors

#	ARTICLE	IF	CITATIONS
1	Roles of enzymatic and nonenzymatic antioxidants in plants during abiotic stress. <i>Critical Reviews in Biotechnology</i> , 2010, 30, 161-175.	5.1	943
2	Nitric Oxide Mitigates Salt Stress by Regulating Levels of Osmolytes and Antioxidant Enzymes in Chickpea. <i>Frontiers in Plant Science</i> , 2016, 7, 347.	1.7	446
3	Reactive oxygen species, antioxidants and signaling in plants. <i>Journal of Plant Biology</i> , 2008, 51, 167-173.	0.9	403
4	Assessment of Subcellular ROS and NO Metabolism in Higher Plants: Multifunctional Signaling Molecules. <i>Antioxidants</i> , 2019, 8, 641.	2.2	310
5	Jasmonates: Multifunctional Roles in Stress Tolerance. <i>Frontiers in Plant Science</i> , 2016, 7, 813.	1.7	306
6	Role of <i>Trichoderma harzianum</i> in mitigating NaCl stress in Indian mustard (<i>Brassica juncea</i> L) through antioxidative defense system. <i>Frontiers in Plant Science</i> , 2015, 6, 868.	1.7	302
7	Changes in growth, lipid peroxidation and some key antioxidant enzymes in chickpea genotypes under salt stress. <i>Acta Physiologiae Plantarum</i> , 2013, 35, 1039-1050.	1.0	269
8	Melatonin-mediated nitric oxide improves tolerance to cadmium toxicity by reducing oxidative stress in wheat plants. <i>Chemosphere</i> , 2019, 225, 627-638.	4.2	265
9	Alleviation of Cadmium Toxicity in <i>Brassica juncea</i> L. (Czern. & Coss.) by Calcium Application Involves Various Physiological and Biochemical Strategies. <i>PLoS ONE</i> , 2015, 10, e0114571.	1.1	235
10	Influence of High and Low Levels of Plant-Beneficial Heavy Metal Ions on Plant Growth and Development. <i>Frontiers in Environmental Science</i> , 2016, 4, .	1.5	224
11	Integrative roles of nitric oxide and hydrogen sulfide in melatonin-induced tolerance of pepper (<i>Capsicum annuum</i> L.) plants to iron deficiency and salt stress alone or in combination. <i>Physiologia Plantarum</i> , 2020, 168, 256-277.	2.6	216
12	Melatonin and calcium function synergistically to promote the resilience through ROS metabolism under arsenic-induced stress. <i>Journal of Hazardous Materials</i> , 2020, 398, 122882.	6.5	213
13	Role of transgenic plants in agriculture and biopharming. <i>Biotechnology Advances</i> , 2012, 30, 524-540.	6.0	204
14	Responses of nitric oxide and hydrogen sulfide in regulating oxidative defence system in wheat plants grown under cadmium stress. <i>Physiologia Plantarum</i> , 2020, 168, 345-360.	2.6	204
15	Influence of Exogenous Salicylic Acid and Nitric Oxide on Growth, Photosynthesis, and Ascorbate-Glutathione Cycle in Salt Stressed <i>Vigna angularis</i> . <i>Biomolecules</i> , 2020, 10, 42.	1.8	201
16	Reactive Oxygen Species in Plants: From Source to Sink. <i>Antioxidants</i> , 2022, 11, 225.	2.2	197
17	Silicon nanoparticles enhanced the growth and reduced the cadmium accumulation in grains of wheat (<i>Triticum aestivum</i> L.). <i>Plant Physiology and Biochemistry</i> , 2019, 140, 1-8.	2.8	195
18	Jasmonic Acid Modulates the Physio-Biochemical Attributes, Antioxidant Enzyme Activity, and Gene Expression in <i>Glycine max</i> under Nickel Toxicity. <i>Frontiers in Plant Science</i> , 2016, 7, 591.	1.7	192

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19	Calcium and Potassium Supplementation Enhanced Growth, Osmolyte Secondary Metabolite Production, and Enzymatic Antioxidant Machinery in Cadmium-Exposed Chickpea (<i>Cicer arietinum</i> L.). <i>Frontiers in Plant Science</i> , 2016, 7, 513.	1.7	190
20	Exogenous application of nitric oxide modulates osmolyte metabolism, antioxidants, enzymes of ascorbate-glutathione cycle and promotes growth under cadmium stress in tomato. <i>Protoplasma</i> , 2018, 255, 79-93.	1.0	189
21	Arbuscular mycorrhizal symbiosis and abiotic stress in plants: A review. <i>Journal of Plant Biology</i> , 2016, 59, 407-426.	0.9	188
22	Silicon (Si) Supplementation Alleviates NaCl Toxicity in Mung Bean [<i>Vigna radiata</i> (L.) Wilczek] Through the Modifications of Physio-biochemical Attributes and Key Antioxidant Enzymes. <i>Journal of Plant Growth Regulation</i> , 2019, 38, 70-82.	2.8	188
23	Genotoxic stress in plants: Shedding light on DNA damage, repair and DNA repair helicases. <i>Mutation Research - Reviews in Mutation Research</i> , 2009, 681, 134-149.	2.4	183
24	Selenium modulates dynamics of antioxidative defence expression, photosynthetic attributes and secondary metabolites to mitigate chromium toxicity in <i>Brassica juncea</i> L. plants. <i>Environmental and Experimental Botany</i> , 2019, 161, 180-192.	2.0	177
25	Zinc oxide nanoparticles (ZnO-NPs) induce salt tolerance by improving the antioxidant system and photosynthetic machinery in tomato. <i>Plant Physiology and Biochemistry</i> , 2021, 161, 122-130.	2.8	171
26	Improved Drought Tolerance by AMF Inoculation in Maize (<i>Zea mays</i>) Involves Physiological and Biochemical Implications. <i>Plants</i> , 2019, 8, 579.	1.6	170
27	Combined use of biochar and zinc oxide nanoparticle foliar spray improved the plant growth and decreased the cadmium accumulation in rice (<i>Oryza sativa</i> L.) plant. <i>Environmental Science and Pollution Research</i> , 2019, 26, 11288-11299.	2.7	166
28	Zinc Oxide Nanoparticles Application Alleviates Arsenic (As) Toxicity in Soybean Plants by Restricting the Uptake of as and Modulating Key Biochemical Attributes, Antioxidant Enzymes, Ascorbate-Glutathione Cycle and Glyoxalase System. <i>Plants</i> , 2020, 9, 825.	1.6	165
29	Interactive effect of 24-epibrassinolide and silicon alleviates cadmium stress via the modulation of antioxidant defense and glyoxalase systems and macronutrient content in <i>Pisum sativum</i> L. seedlings. <i>BMC Plant Biology</i> , 2018, 18, 146.	1.6	160
30	Salicylic acid-induced nitric oxide enhances arsenic toxicity tolerance in maize plants by upregulating the ascorbate-glutathione cycle and glyoxalase system. <i>Journal of Hazardous Materials</i> , 2020, 399, 123020.	6.5	160
31	Potential of exogenously sourced kinetin in protecting <i>Solanum lycopersicum</i> from NaCl-induced oxidative stress through up-regulation of the antioxidant system, ascorbate-glutathione cycle and glyoxalase system. <i>PLoS ONE</i> , 2018, 13, e0202175.	1.1	158
32	Selenium mitigates cadmium-induced oxidative stress in tomato (<i>Solanum lycopersicum</i> L.) plants by modulating chlorophyll fluorescence, osmolyte accumulation, and antioxidant system. <i>Protoplasma</i> , 2018, 255, 459-469.	1.0	157
33	Biochar as a tool for effective management of drought and heavy metal toxicity. <i>Chemosphere</i> , 2021, 271, 129458.	4.2	152
34	Seed priming with titanium dioxide nanoparticles enhances seed vigor, leaf water status, and antioxidant enzyme activities in maize (<i>Zea mays</i> L.) under salinity stress. <i>Journal of King Saud University - Science</i> , 2021, 33, 101207.	1.6	148
35	Current Perspectives on Plant Growth-Promoting Rhizobacteria. <i>Journal of Plant Growth Regulation</i> , 2016, 35, 877-902.	2.8	145
36	Impact of drought and heat stress individually and in combination on physio-biochemical parameters, antioxidant responses, and gene expression in <i>Solanum lycopersicum</i> . <i>3 Biotech</i> , 2020, 10, 208.	1.1	144

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37	Growth and antioxidant responses in mustard (<i>Brassica juncea</i> L.) plants subjected to combined effect of gibberellic acid and salinity. <i>Archives of Agronomy and Soil Science</i> , 2010, 56, 575-588.	1.3	141
38	Mitigation of sodium chloride toxicity in <i>Solanum lycopersicum</i> L. by supplementation of jasmonic acid and nitric oxide. <i>Journal of Plant Interactions</i> , 2018, 13, 64-72.	1.0	139
39	Hydrogen sulfide alleviates chromium stress on cauliflower by restricting its uptake and enhancing antioxidative system. <i>Physiologia Plantarum</i> , 2020, 168, 289-300.	2.6	137
40	Antimicrobial Activity of Medicinal Plants Correlates with the Proportion of Antagonistic Endophytes. <i>Frontiers in Microbiology</i> , 2017, 8, 199.	1.5	136
41	Revisiting the role of ROS and RNS in plants under changing environment. <i>Environmental and Experimental Botany</i> , 2019, 161, 1-3.	2.0	136
42	Exogenous Application of Selenium Mitigates Cadmium Toxicity in <i>Brassica juncea</i> L. (<i>Czern & Tj</i>) <i>ETQq0 0 0 rgBT /Overlock 10 Tf 5 Regulation</i> , 2016, 35, 936-950.	2.8	130
43	Effect of foliar applications of silicon and titanium dioxide nanoparticles on growth, oxidative stress, and cadmium accumulation by rice (<i>Oryza sativa</i>). <i>Acta Physiologiae Plantarum</i> , 2019, 41, 1.	1.0	129
44	Melatonin Improves Drought Stress Tolerance of Tomato by Modulating Plant Growth, Root Architecture, Photosynthesis, and Antioxidant Defense System. <i>Antioxidants</i> , 2022, 11, 309.	2.2	128
45	24-Epibrassinolide (EBR) Confers Tolerance against NaCl Stress in Soybean Plants by Up-Regulating Antioxidant System, Ascorbate-Glutathione Cycle, and Glyoxalase System. <i>Biomolecules</i> , 2019, 9, 640.	1.8	114
46	Combined effects of brassinosteroid and kinetin mitigates salinity stress in tomato through the modulation of antioxidant and osmolyte metabolism. <i>Plant Physiology and Biochemistry</i> , 2020, 147, 31-42.	2.8	114
47	28-homobrassinolide regulates antioxidant enzyme activities and gene expression in response to salt- and temperature-induced oxidative stress in <i>Brassica juncea</i> . <i>Scientific Reports</i> , 2018, 8, 8735.	1.6	113
48	Silicon and Plants: Current Knowledge and Future Prospects. <i>Journal of Plant Growth Regulation</i> , 2021, 40, 906-925.	2.8	113
49	Plant responses to environmental stresses “from gene to biotechnology. <i>AoB PLANTS</i> , 2017, 9, plx025.	1.2	112
50	Jasmonic acid alleviates negative impacts of cadmium stress by modifying osmolytes and antioxidants in faba bean (<i>Vicia faba</i> L.). <i>Archives of Agronomy and Soil Science</i> , 2017, 63, 1889-1899.	1.3	110
51	Integration of silicon and secondary metabolites in plants: a significant association in stress tolerance. <i>Journal of Experimental Botany</i> , 2020, 71, 6758-6774.	2.4	107
52	Interaction of 24-epibrassinolide and salicylic acid regulates pigment contents, antioxidative defense responses, and gene expression in <i>Brassica juncea</i> L. seedlings under Pb stress. <i>Environmental Science and Pollution Research</i> , 2018, 25, 15159-15173.	2.7	106
53	Herbal immune-boosters: Substantial warriors of pandemic Covid-19 battle. <i>Phytomedicine</i> , 2021, 85, 153361.	2.3	106
54	Exogenous application of calcium to 24-epibrassinosteroid pre-treated tomato seedlings mitigates NaCl toxicity by modifying ascorbate “glutathione cycle and secondary metabolites. <i>Scientific Reports</i> , 2018, 8, 13515.	1.6	105

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55	Pre-sowing Seed Treatment with 24-Epibrassinolide Ameliorates Pesticide Stress in Brassica juncea L. through the Modulation of Stress Markers. <i>Frontiers in Plant Science</i> , 2016, 7, 1569.	1.7	104
56	Impact of exogenously applied trehalose on leaf biochemistry, achene yield and oil composition of sunflower under drought stress. <i>Physiologia Plantarum</i> , 2021, 172, 317-333.	2.6	103
57	Roles of potential plant hormones and transcription factors in controlling leaf senescence and drought tolerance. <i>Protoplasma</i> , 2019, 256, 313-329.	1.0	102
58	Combined effect of 24-epibrassinolide and salicylic acid mitigates lead (Pb) toxicity by modulating various metabolites in Brassica juncea L. seedlings. <i>Protoplasma</i> , 2018, 255, 11-24.	1.0	102
59	Supplementation with plant growth promoting rhizobacteria (PGPR) alleviates cadmium toxicity in Solanum lycopersicum by modulating the expression of secondary metabolites. <i>Chemosphere</i> , 2019, 230, 628-639.	4.2	101
60	The role of endogenous nitric oxide in salicylic acid-induced up-regulation of ascorbate-glutathione cycle involved in salinity tolerance of pepper (<i>Capsicum annuum</i> L.) plants. <i>Plant Physiology and Biochemistry</i> , 2020, 147, 10-20.	2.8	101
61	Jasmonic acid ameliorates alkaline stress by improving growth performance, ascorbate glutathione cycle and glyoxylase system in maize seedlings. <i>Scientific Reports</i> , 2018, 8, 2831.	1.6	100
62	Deciphering the Protective Role of Nitric Oxide against Salt Stress at the Physiological and Proteomic Levels in Maize. <i>Journal of Proteome Research</i> , 2011, 10, 4349-4364.	1.8	99
63	Brassinosteroids Regulate Growth in Plants Under Stressful Environments and Crosstalk with Other Potential Phytohormones. <i>Journal of Plant Growth Regulation</i> , 2018, 37, 1007-1024.	2.8	98
64	Jasmonic acid application triggers detoxification of lead (Pb) toxicity in tomato through the modifications of secondary metabolites and gene expression. <i>Chemosphere</i> , 2019, 235, 734-748.	4.2	96
65	Sulfur-enriched leonardite and humic acid soil amendments enhance tolerance to drought and phosphorus deficiency stress in maize (<i>Zea mays</i> L.). <i>Scientific Reports</i> , 2020, 10, 6432.	1.6	95
66	The putative role of endogenous nitric oxide in brassinosteroid-induced antioxidant defence system in pepper (<i>Capsicum annuum</i> L.) plants under water stress. <i>Plant Physiology and Biochemistry</i> , 2019, 143, 119-128.	2.8	94
67	Current developments in arbuscular mycorrhizal fungi research and its role in salinity stress alleviation: a biotechnological perspective. <i>Critical Reviews in Biotechnology</i> , 2015, 35, 461-474.	5.1	89
68	Modification of Osmolytes and Antioxidant Enzymes by 24-Epibrassinolide in Chickpea Seedlings Under Mercury (Hg) Toxicity. <i>Journal of Plant Growth Regulation</i> , 2018, 37, 309-322.	2.8	89
69	Exogenously Applied Ascorbic Acid-Mediated Changes in Osmoprotection and Oxidative Defense System Enhanced Water Stress Tolerance in Different Cultivars of Safflower (<i>Carthamus tinctorious</i> L.). <i>Plants</i> , 2020, 9, 104.	1.6	88
70	Sodium nitroprusside (SNP) improves tolerance to arsenic (As) toxicity in Vicia faba through the modifications of biochemical attributes, antioxidants, ascorbate-glutathione cycle and glyoxalase cycle. <i>Chemosphere</i> , 2020, 244, 125480.	4.2	86
71	Drought Tolerance: Role of Organic Osmolytes, Growth Regulators, and Mineral Nutrients. , 2014, , 25-55.		85
72	Phytohormones and microRNAs as sensors and regulators of leaf senescence: Assigning macro roles to small molecules. <i>Biotechnology Advances</i> , 2013, 31, 1153-1171.	6.0	84

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73	Spermine application alleviates salinity induced growth and photosynthetic inhibition in <i>Solanum lycopersicum</i> by modulating osmolyte and secondary metabolite accumulation and differentially regulating antioxidant metabolism. <i>Plant Physiology and Biochemistry</i> , 2019, 144, 1-13.	2.8	84
74	The role of nitrate reductase in brassinosteroid-induced endogenous nitric oxide generation to improve cadmium stress tolerance of pepper plants by upregulating the ascorbate-glutathione cycle. <i>Ecotoxicology and Environmental Safety</i> , 2020, 196, 110483.	2.9	84
75	Melatonin Alleviates High Temperature-Induced Pollen Abortion in <i>Solanum lycopersicum</i> . <i>Molecules</i> , 2018, 23, 386.	1.7	82
76	Exogenously supplied silicon (Si) improves cadmium tolerance in pepper (<i>Capsicum annuum</i> L.) by up-regulating the synthesis of nitric oxide and hydrogen sulfide. <i>Journal of Biotechnology</i> , 2020, 316, 35-45.	1.9	82
77	Plant growth promoting rhizobacteria induced Cd tolerance in <i>Lycopersicon esculentum</i> through altered antioxidative defense expression. <i>Chemosphere</i> , 2019, 217, 463-474.	4.2	81
78	Foliar fertigation of ascorbic acid and zinc improves growth, antioxidant enzyme activity and harvest index in barley (<i>Hordeum vulgare</i> L.) grown under salt stress. <i>Plant Physiology and Biochemistry</i> , 2021, 158, 244-254.	2.8	81
79	Zinc oxide nanoparticles alleviates the adverse effects of cadmium stress on <i>Oryza sativa</i> via modulation of the photosynthesis and antioxidant defense system. <i>Ecotoxicology and Environmental Safety</i> , 2021, 220, 112401.	2.9	79
80	Effect of sodium carbonate-induced salinityâ€“alkalinity on some key osmoprotectants, protein profile, antioxidant enzymes, and lipid peroxidation in two mulberry (<i>Morus alba</i> L.) cultivars. <i>Journal of Plant Interactions</i> , 2014, 9, 460-467.	1.0	77
81	Effect of salt stress on growth and biochemical parameters of <i>Pisum sativum</i> L.. <i>Archives of Agronomy and Soil Science</i> , 2005, 51, 665-672.	1.3	75
82	Salt Stress: Causes, Types and Responses of Plants. , 2013, , 1-24.		74
83	Combined Kinetin and Spermidine Treatments Ameliorate Growth and Photosynthetic Inhibition in <i>Vigna angularis</i> by Up-Regulating Antioxidant and Nitrogen Metabolism under Cadmium Stress. <i>Biomolecules</i> , 2020, 10, 147.	1.8	74
84	Selenium ameliorates chromium toxicity through modifications in pigment system, antioxidative capacity, osmotic system, and metal chelators in <i>Brassica juncea</i> seedlings. <i>South African Journal of Botany</i> , 2018, 119, 1-10.	1.2	73
85	Mechanisms Underlying Graft Union Formation and Rootstock Scion Interaction in Horticultural Plants. <i>Frontiers in Plant Science</i> , 2020, 11, 590847.	1.7	73
86	Differential distribution of amino acids in plants. <i>Amino Acids</i> , 2017, 49, 821-869.	1.2	72
87	Green synthesis of zinc oxide nanoparticles using <i>Elaeagnus angustifolia</i> L. leaf extracts and their multiple in vitro biological applications. <i>Scientific Reports</i> , 2021, 11, 20988.	1.6	72
88	Abiotic Stress Responses in Plants: An Overview. , 2012, , 1-28.		71
89	Alpha-Tocopherol-Induced Regulation of Growth and Metabolism in Plants Under Non-stress and Stress Conditions. <i>Journal of Plant Growth Regulation</i> , 2019, 38, 1325-1340.	2.8	70
90	Synergistic effects of plant growth promoting rhizobacteria and silicon dioxide nano-particles for amelioration of drought stress in wheat. <i>Plant Physiology and Biochemistry</i> , 2021, 166, 160-176.	2.8	70

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91	Elevation in wildfire frequencies with respect to the climate change. Journal of Environmental Management, 2022, 301, 113769.	3.8	70
92	Role of Glutathione Reductase in Plant Abiotic Stress. , 2012, , 149-158.		69
93	Fate of arsenic in living systems: Implications for sustainable and safe food chains. Journal of Hazardous Materials, 2021, 417, 126050.	6.5	69
94	Main nitric oxide (NO) hallmarks to relieve arsenic stress in higher plants. Journal of Hazardous Materials, 2021, 406, 124289.	6.5	68
95	Jasmonic acid induced changes in physio-biochemical attributes and ascorbate-glutathione pathway in <i>Lycopersicon esculentum</i> under lead stress at different growth stages. Science of the Total Environment, 2018, 645, 1344-1360.	3.9	67
96	Accumulation of chromium in plants and its repercussion in animals and humans. Environmental Pollution, 2022, 301, 119044.	3.7	67
97	Combined application of zinc oxide nanoparticles and biofertilizer to induce salt resistance in safflower by regulating ion homeostasis and antioxidant defence responses. Ecotoxicology and Environmental Safety, 2021, 218, 112262.	2.9	66
98	Potassium starvation-induced oxidative stress and antioxidant defense responses in <i>Brassica juncea</i> . Journal of Plant Interactions, 2014, 9, 1-9.	1.0	65
99	Elucidating the role of silicon in drought stress tolerance in plants. Plant Physiology and Biochemistry, 2021, 165, 187-195.	2.8	64
100	Zinc application mitigates the adverse effects of NaCl stress on mustard [<i>Brassica juncea</i> (L.) Czern & Coss] through modulating compatible organic solutes, antioxidant enzymes, and flavonoid content. Journal of Plant Interactions, 2017, 12, 429-437.	1.0	63
101	Ion homeostasis for salinity tolerance in plants: a molecular approach. Physiologia Plantarum, 2021, 171, 578-594.	2.6	63
102	Biosynthesis and characterization of titanium dioxide nanoparticles and its effects along with calcium phosphate on physicochemical attributes of wheat under drought stress. Ecotoxicology and Environmental Safety, 2021, 223, 112519.	2.9	63
103	Photocatalytic degradation of an organic dye using Ag doped ZrO ₂ nanoparticles: Milk powder facilitated eco-friendly synthesis. Journal of King Saud University - Science, 2020, 32, 1872-1878.	1.6	62
104	Arbuscular mycorrhiza in combating abiotic stresses in vegetables: An eco-friendly approach. Saudi Journal of Biological Sciences, 2021, 28, 1465-1476.	1.8	62
105	Drought-tolerant <i>Bacillus megaterium</i> isolated from semi-arid conditions induces systemic tolerance of wheat under drought conditions. Plant Cell Reports, 2022, 41, 549-569.	2.8	62
106	Enhancing Plant Productivity Under Salt Stress: Relevance of Poly-omics. , 2013, , 113-156.		61
107	Salinity Stress and Arbuscular Mycorrhizal Symbiosis in Plants. , 2014, , 139-159.		60
108	Role of plant growth promoting Bacteria (PGPRs) as biocontrol agents of <i>Meloidogyne incognita</i> through improved plant defense of <i>Lycopersicon esculentum</i> . Plant and Soil, 2019, 436, 325-345.	1.8	60

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109	Zinc oxide nanoparticles and 24-epibrassinolide alleviates Cu toxicity in tomato by regulating ROS scavenging, stomatal movement and photosynthesis. <i>Ecotoxicology and Environmental Safety</i> , 2021, 218, 112293.	2.9	60
110	Ca ²⁺ signals: The versatile decoders of environmental cues. <i>Critical Reviews in Biotechnology</i> , 2013, 33, 97-109.	5.1	59
111	24-Epibrassinolide Alleviates the Injurious Effects of Cr(VI) Toxicity in Tomato Plants: Insights into Growth, Physio-Biochemical Attributes, Antioxidant Activity and Regulation of Ascorbate-Glutathione and Glyoxalase Cycles. <i>Journal of Plant Growth Regulation</i> , 2020, 39, 1587-1604.	2.8	59
112	Role of Proteomics in Crop Stress Tolerance. <i>Frontiers in Plant Science</i> , 2016, 7, 1336.	1.7	58
113	Exogenously applied growth regulators protect the cotton crop from heat-induced injury by modulating plant defense mechanism. <i>Scientific Reports</i> , 2018, 8, 17086.	1.6	58
114	Castasterone and Citric Acid Supplementation Alleviates Cadmium Toxicity by Modifying Antioxidants and Organic Acids in Brassica juncea. <i>Journal of Plant Growth Regulation</i> , 2018, 37, 286-299.	2.8	57
115	Citric Acid Enhances Plant Growth, Photosynthesis, and Phytoextraction of Lead by Alleviating the Oxidative Stress in Castor Beans. <i>Plants</i> , 2019, 8, 525.	1.6	57
116	Jasmonic acid and methyl jasmonate modulate growth, photosynthetic activity and expression of photosystem II subunit genes in Brassica oleracea L. <i>Scientific Reports</i> , 2020, 10, 9322.	1.6	57
117	Influence of salinity stress on PSII in barley (<i>Hordeum vulgare</i> L.) genotypes, probed by chlorophyll-a fluorescence. <i>Journal of King Saud University - Science</i> , 2021, 33, 101239.	1.6	57
118	Protective role of selenium against chromium stress involving metabolites and essential elements in Brassica juncea L. seedlings. <i>3 Biotech</i> , 2018, 8, 66.	1.1	56
119	Effect of green and chemically synthesized titanium dioxide nanoparticles on cadmium accumulation in wheat grains and potential dietary health risk: A field investigation. <i>Journal of Hazardous Materials</i> , 2021, 415, 125585.	6.5	55
120	Proteomic profiling and redox status alteration of recalcitrant tea (<i>Camellia sinensis</i>) seed in response to desiccation. <i>Planta</i> , 2011, 233, 583-592.	1.6	54
121	Jasmonic Acid Improves Growth Performance of Soybean Under Nickel Toxicity By Regulating Nickel Uptake, Redox Balance, and Oxidative Stress Metabolism. <i>Journal of Plant Growth Regulation</i> , 2018, 37, 1195-1209.	2.8	54
122	Role of mineral nutrition in alleviation of heat stress in cotton plants grown in glasshouse and field conditions. <i>Scientific Reports</i> , 2019, 9, 13022.	1.6	54
123	Melatonin: First-line soldier in tomato under abiotic stress current and future perspective. <i>Plant Physiology and Biochemistry</i> , 2022, 185, 188-197.	2.8	54
124	Salicylic Acid (SA) Induced Alterations in Growth, Biochemical Attributes and Antioxidant Enzyme Activity in Faba Bean (<i>Vicia faba</i> L.) Seedlings under NaCl Toxicity. <i>Russian Journal of Plant Physiology</i> , 2018, 65, 104-114.	0.5	53
125	Arbuscular Mycorrhiza in Crop Improvement under Environmental Stress. , 2014, , 69-95.		52
126	Copper Uptake and Accumulation, Ultra-Structural Alteration, and Bast Fibre Yield and Quality of Fibrous Jute (<i>Corchorus capsularis</i> L.) Plants Grown under Two Different Soils of China. <i>Plants</i> , 2020, 9, 404.	1.6	52

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127	Relevance of Proteomic Investigations in Plant Abiotic Stress Physiology. OMICS A Journal of Integrative Biology, 2012, 16, 621-635.	1.0	50
128	Catalase. , 2014, , 131-148.		50
129	Plant transcriptomics and responses to environmental stress: an overview. Journal of Genetics, 2015, 94, 525-537.	0.4	50
130	Mitigation of NaCl Stress by Arbuscular Mycorrhizal Fungi through the Modulation of Osmolytes, Antioxidants and Secondary Metabolites in Mustard (<i>Brassica juncea</i> L.) Plants. Frontiers in Plant Science, 2016, 7, 869.	1.7	50
131	The combined supplementation of melatonin and salicylic acid effectively detoxifies arsenic toxicity by modulating phytochelatins and nitrogen metabolism in pepper plants. Environmental Pollution, 2022, 297, 118727.	3.7	50
132	Role of P-type ATPase metal transporters and plant immunity induced by jasmonic acid against Lead (Pb) toxicity in tomato. Ecotoxicology and Environmental Safety, 2019, 174, 283-294.	2.9	49
133	Analysis of genetic control and QTL mapping of essential wheat grain quality traits in a recombinant inbred population. PLoS ONE, 2019, 14, e0200669.	1.1	49
134	Interactive Effects of Nutrients and Bradyrhizobium japonicum on the Growth and Root Architecture of Soybean (<i>Glycine max</i> L.). Frontiers in Microbiology, 2018, 9, 1000.	1.5	48
135	Alpha-tocopherol fertigation confers growth physio-biochemical and qualitative yield enhancement in field grown water deficit wheat (<i>Triticum aestivum</i> L.). Scientific Reports, 2019, 9, 12924.	1.6	48
136	Silicon Alleviates Nickel-Induced Oxidative Stress by Regulating Antioxidant Defense and Glyoxalase Systems in Mustard Plants. Journal of Plant Growth Regulation, 2019, 38, 1260-1273.	2.8	48
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147	Defense interplay of the zinc-oxide nanoparticles and melatonin in alleviating the arsenic stress in soybean (<i>Glycine max</i> L.). <i>Chemosphere</i> , 2022, 288, 132471.	4.2	45
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